

~9.6 kb

5' 3'

NS

3010-3033 aa

5' (UUC) 3'

C p21

E1 gp31 (21)

E2 gp70 (36)

2 p23

3 p70

4A p8

4B p27

5A p58

5B p68

RNA binding nucleocapsid protein

virion glycoproteins E1-E2 heterodimers

NS2-3 autoproteins

Ser proteinase cofactor

RNA-dependent RNA polymerase

Ser phosphoprotein

N-terminal Ser proteinase

C-terminal NTPase/RNA helicase

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Figure 1

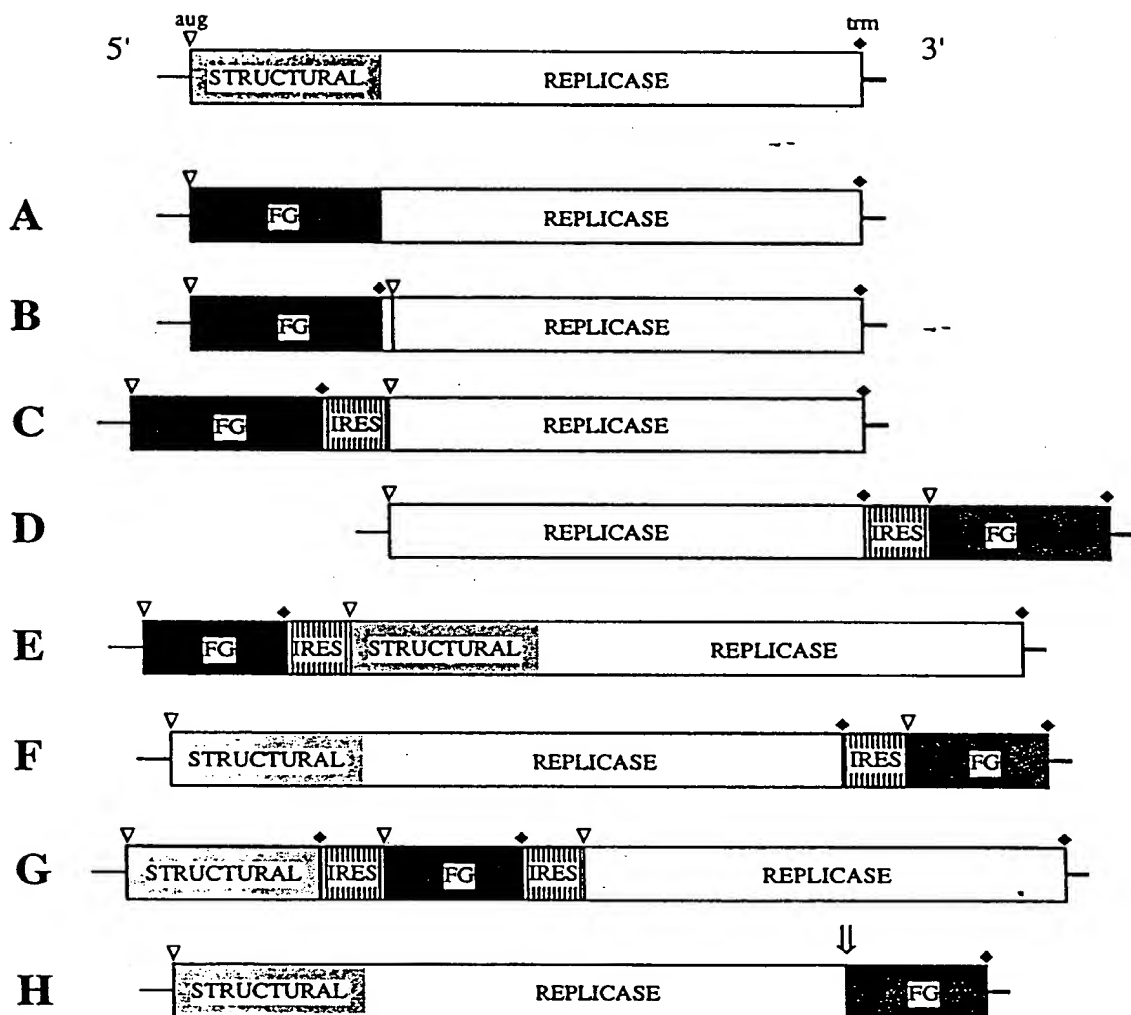


Figure 2

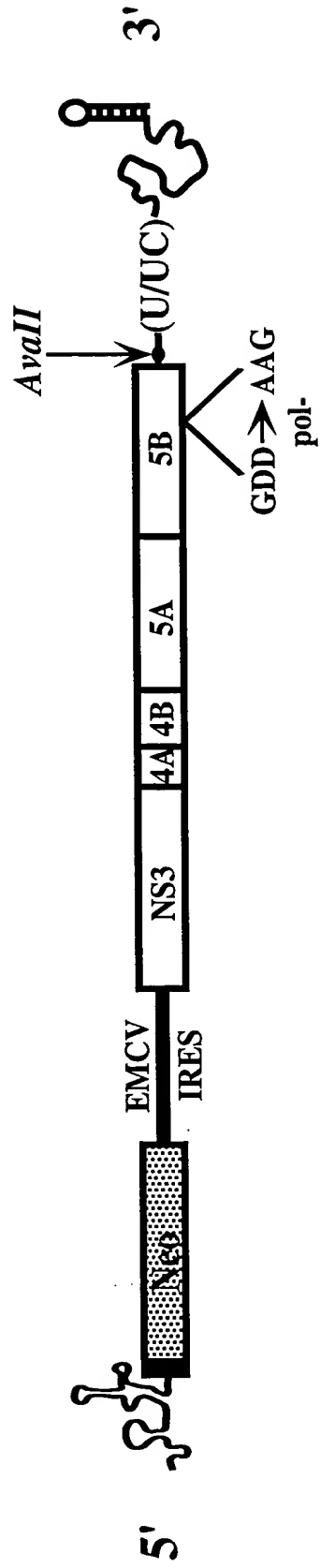
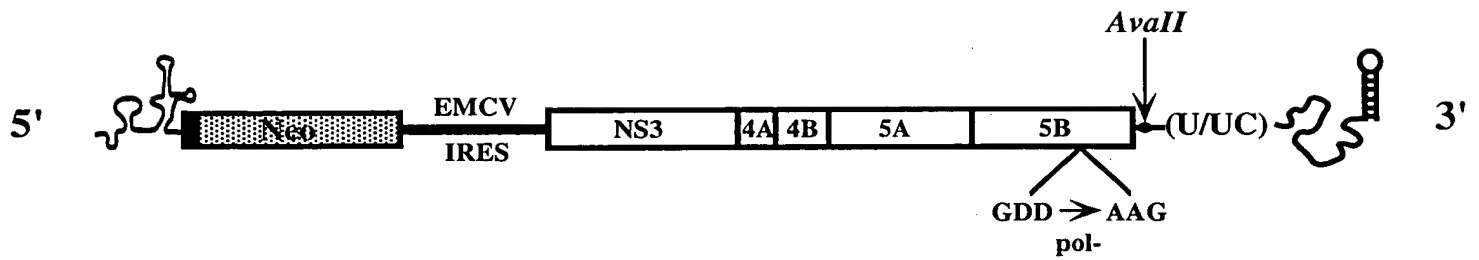


Figure 3

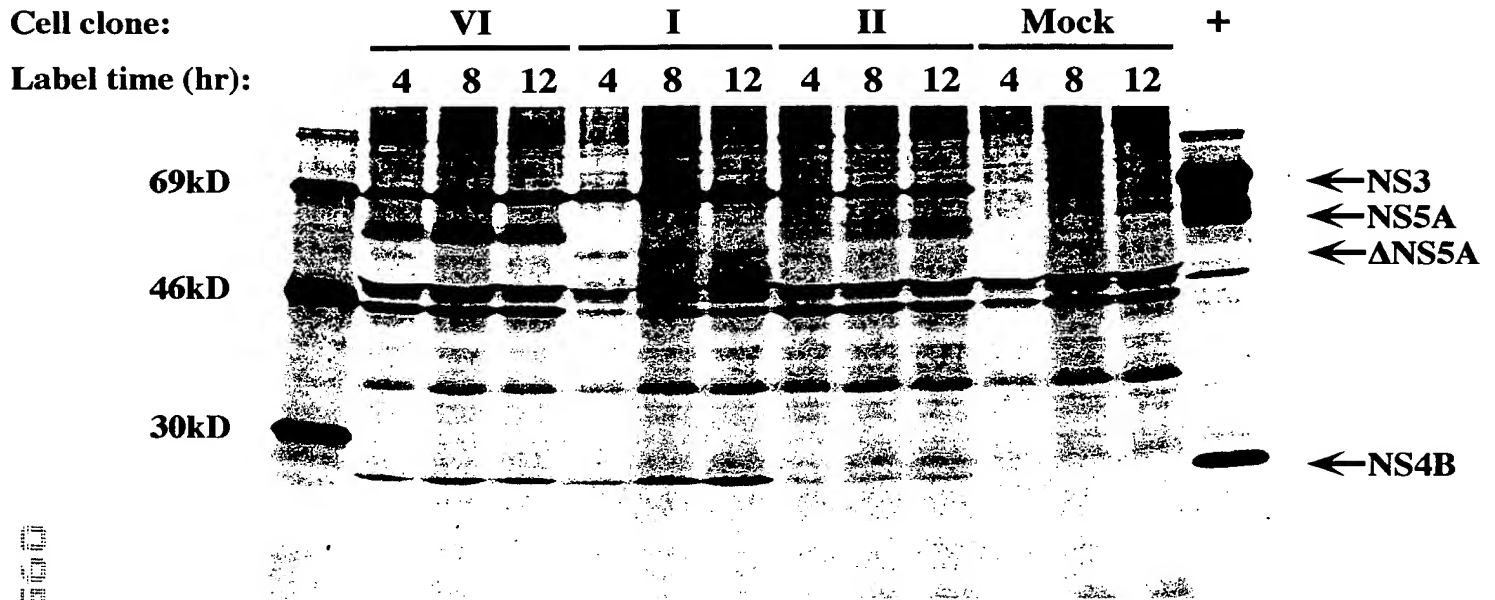


- DNase digest RNA transcripts
- Electroporate RNA into Huh7 cells
- G418-resistant colonies were generated at low frequency
- 28 colonies were picked & 90% of these could be passaged
- No colonies observed for the replicon RNA containing an inactive RDRP

Clone	Copy number/cell	Cytoplasmic NS3	Growth Rate
I	>1000	Yes	Fast
II	~1000-5000	Yes	Fast
IV	ND	Yes	Fast
V	500	ND	Moderate
VI	~1000	Yes	Fast
VII	>800	Yes	Fast
Clone E	<400	No	Very slow

Figure 4

A.



B.

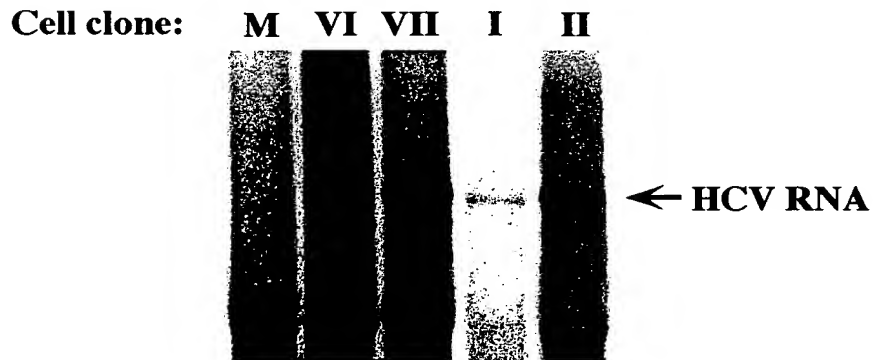
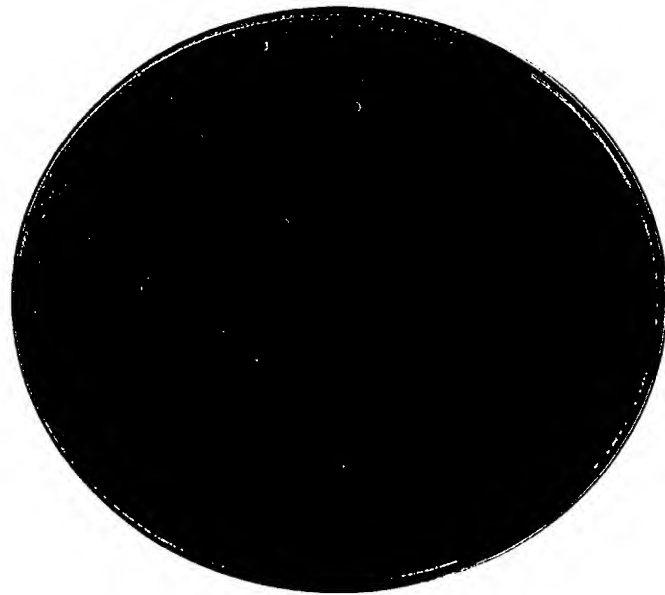
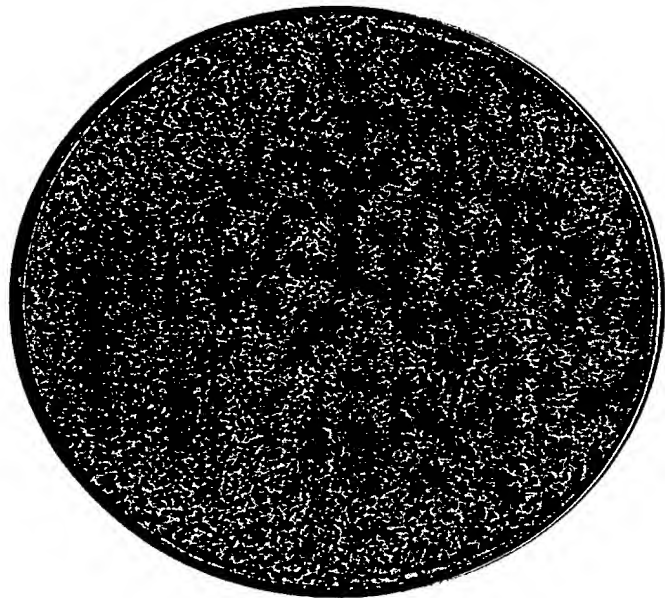


Figure 5

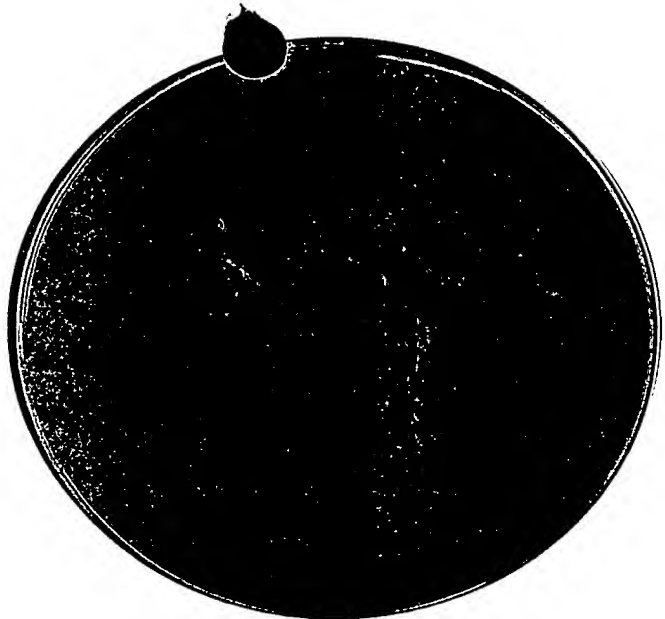
Figure 6



HCVrepBartMan/Avall



Variant I



pol-

Figure 8

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